

Evaluation of Chemical Localized Treatment for Drywood Termite Control

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SUMMARY

The primary objective of this research is to evaluate the effectiveness of chemical spot treatments for the western drywood termite, *Incisitermes minor* (Hagen), control. This study will be confined to insecticides that are injected into drywood termite galleries. The insecticides to be tested include d-limonene (XT-2000), fipronil (Termidor), and imidacloprid (Premise Foam), thiamethoxam (Optigard ZT), and the standard disodium octaborate tetrahydrate (Tim-Bor). Novel active ingredients such as indoxacarb will also be evaluated. To achieve this goal, the project has been subdivided as follows:

RESEARCH OBJECTIVES

- 1) to determine the contact and residual activity of several commonly used insecticides as well as selected novel insecticides against dry wood termites
- 2) to determine if treated woods repel termites and prevent feeding
- 3) to determine if insecticides are transferred from exposed to unexposed termites
- 4) to determine the distance from the point of injection that the treatments kill drywood termites